Physics of the Solid State 1996 vol.38 N8, pages 1263-1265

Magnon bottleneck emergence in La2-xSrxCuO4+δ and its use in studies of the dynamics of CuO2 planes

Kochelaev B., Deminov R., Tagirov L.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

An improved model of the magnon bottleneck is used to show the possibility of measuring the relaxation rate to a homogeneous magnetization lattice of copper-oxygen planes in copper oxide. The agreement between EPR measurements of the spin dynamical characteristics in CuO2 planes and data obtained by NMR spectroscopy is proven to be adequate. © 1996 American Institute of Physics.